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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/694,383	10/27/2003	Ekambar R. Kandimalla	HYB-005US4	5766
99488 Furman Gregor	7590 03/01/201 y Deptula	EXAMINER		
215 Main Street		HORNING, MICHELLE S		
-	Suite 101 Biddeford, ME 04005			PAPER NUMBER
			1648	
			MAIL DATE	DELIVERY MODE
			03/01/2011	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	10/694,383	KANDIMALLA ET AL.	
Office Action Summary	Examiner	Art Unit	
	MICHELLE HORNING	1648	
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with the	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING Description of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION (136(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDON	DN. timely filed om the mailing date of this communication. NED (35 U.S.C. § 133).	
Status			
1) ☐ Responsive to communication(s) filed on 13 L 2a) ☐ This action is FINAL . 2b) ☐ This action is application is in condition for allowed closed in accordance with the practice under	s action is non-final. ance except for formal matters, p		
Disposition of Claims			
4) ☐ Claim(s) 12 and 14 is/are pending in the applied 4a) Of the above claim(s) is/are withdrates 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 12 and 14 is/are rejected. 7) ☐ Claim(s) 12 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or and/or control of the applied is/are pending in the applied is/are withdrates.	awn from consideration.		
Application Papers			
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	cepted or b) objected to by the drawing(s) be held in abeyance. So ction is required if the drawing(s) is c	ee 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat* * See the attached detailed Office action for a list	nts have been received. Its have been received in Applica prity documents have been receinau (PCT Rule 17.2(a)).	ation No ved in this National Stage	
Attachment(s) 1) \(\overline{\text{N}} \) Notice of References Cited (PTO-892) 2) \(\overline{\text{N}} \) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) ☐ Interview Summa Paper No(s)/Mail		
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 	5) Notice of Informal 6) Other:		

DETAILED ACTION

This action is responsive to communication filed 12/12/2010.

Claims 12 and 14 are under current examination.

Any rejection(s) and/or objection(s) not reiterated herein have been withdrawn.

To allow entry of the rejections below, this action is non-final.

Claim Objections-MAINTAINED

Claim 12 is objected to because of the following informalities: the following phrase is improper, "each X independently is independently selected from"; see line 9. Appropriate correction is required.

Double Patenting-MAINTAINED

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422

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F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 12 and 14 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claim 18 of copending Application No. 10/865245. Although the conflicting claims are not identical, they are not patentably distinct from each other because both sets of claims are directed to an immunostimulatory oligonucleotide comprising a CpG as well as linkers. Note that both sets of claims are broad in scope in that they overlap in common structures.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claims 12 and 14 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claim 1 of U.S. Patent No. **7824696**.

Although the conflicting claims are not identical, they are not patentably distinct from each other because both sets of claims are directed to an immunostimulatory

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oligonucleotide comprising a CpG or a 5'hydroxycytosine and a 2'deoxyguanosine and other non-naturally occurring nucleosides, including a C3-alkyl linker.

Response to Arguments

Applicant's arguments filed 12/13/2010 have been fully considered but they are not persuasive. Note that the rejection based on patent 7262286 has been withdrawn. However, the claims of patent 7824696 (US application 10/694418) are not patently distinct from the instant invention for reasons set forth above. Regarding the rejection based on US application 10/865, 245, this rejection is also maintained because not all of the presently maintained rejections have been overcome. Thus, the rejections are maintained.

Double Patenting-MAINTAINED

Claims 12 and 14 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-4 of U.S. Patent No. **7262286** in view of Zhao et al. (Bioorg Med Chem Lett. 2000-IDS). Both sets of claims are drawn to an immunostimulatory oligonucleotide containing a CpG formula and in which the C is an analog, including a 4-thiouracil. The '286 patent does not disclose using a 2'-5' linkage as found in the instant claims. However, Zhao et al. teaches using a method for modulating immunostimulatory activity of a CpG-containing sequence via inserting a 2'-5'-linkage. It would have been obvious to modify the sequences taught by the '286 patent as taught by Zhao et al.

Conclusion

No claim is allowed at this time.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHELLE HORNING whose telephone number is (571)272-9036. The examiner can normally be reached on Monday-Friday 8:00-5:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, ZACHARIAH LUCAS can be reached on 571-272-0905. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/M. H./ Examiner, Art Unit 1648

/Zachariah Lucas/ Supervisory Patent Examiner, Art Unit 1648